

In re Patent Application of:
RIZZOTTO ET AL.
Serial No. 10/615,446
Filing Date: JULY 8, 2003

REMARKS

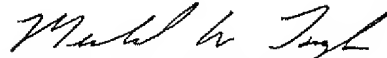
Applicants would like to thank the Examiner for the thorough examination of the present application. Applicants would also like to thank the Examiner for allowing device Claims 22-28.

The Examiner rejected method Claims 11-21 based upon the position that since the claims are directed to a mathematical function, they are directed to a non-statutory process. Independent Claim 11 is directed to a method of performing a Grover's quantum algorithm, and independent Claim 17 is directed to a method of performing a Deutsch-Jozsa's quantum algorithm. The independent claims have respectively been amended to better highlight that the method is for operating a quantum gate running a Grover's quantum algorithm, and for operating a quantum gate running a Deutsch-Jozsa's quantum algorithm. The Applicants respectfully submit that the claims are now directed to a statutory process and overcome 35 U.S.C. 101.

In view of the amendments to the claims, it is submitted that all the claims are patentable. Accordingly, a Notice of Allowance is requested in due course. Should any minor informalities need to be addressed, the Examiner is encouraged to contact the undersigned attorney at the telephone number listed below.

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Respectfully submitted,



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